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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/634,464	C	08/04/2003	Daniel Rodier	13183.174US	6738	
24283	7590	08/01/2005		EXAMINER		
PATTON :	BOGGS		HANLEY, JOHN C			
1660 LINC			ART UNIT	PAPER NUMBER		
SUITE 205	0		ARTONII	PAPER NUMBER		
DENVER,	CO 80264	1	2856			
					DATE MAILED: 08/01/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

1'A							
-	Application No.	Applicant(s)					
Office Action Symmony	10/634,464	RODIER, DANIEL					
Office Action Summary	Examiner	Art Unit					
The MAILING DATE of this communication app	John C. Hanley	2856					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.	' IS SET TO EXPIRE 3 MONTH(S) FROM					
 Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). 	within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 23 Ma							
,	action is non-final.						
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) <u>1-28</u> is/are pending in the application. 4a) Of the above claim(s) <u>3-9,17-21,23,26 and 28</u> is/are withdrawn from consideration.							
Claim(s) is/are allowed.							
	☑ Claim(s) <u>1,2,10-16,22,24,25 and 27</u> is/are rejected.						
	- · · · · — · · · · · · · · · · · · · ·						
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>04 August 2003</u> is/are:							
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	= ' '	•					
11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents)-(d) or (f).					
2. Certified copies of the priority documents		on No					
3. Copies of the certified copies of the prior	•	ed in this National Stage					
application from the International Bureau	·	· ·					
* See the attached detailed Office action for a list	or the certified copies not receive	cu.					
Attachment(s)		(070,440)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5/5/05</u>. 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-2, 10-16, 22, 24-25 and 27 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The disclosure does not support the critical limitation that an odorant molecule attachment material cannot be used along with the high surface area material to prevent selective measurement of a particular contaminant.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims rejected under 35 U.S.C. 103(a) as being unpatentable over Fu (US 6598459).

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Fu show a sensor for monitoring molecular contamination having a 5. measurement element comprising an aerogel material having a surface area greater than 1000m²/g., and a thickness greater than 1 nm and less than 100 microns (col. 8, lines 1-30), and an SAW sensing circuit connected to the measurement element that provides an output signal characteristic of molecular contamination on the surface of the material, which performs the method of monitoring contamination. (It is noted that Fu further teaches some of the features of the non-elected species, such as the materials in claims 3, 6, 7, etc., and that a QCM can be used instead of the SAW sensor.) Regarding claim 14, even though Fu lacks a teaching of the specific number range of above $1500 \text{ m}^2/\text{g}$, it would have been clearly obvious to one of ordinary skill in the art at the time of applicant's invention to provide a material with this range and above, due to the teaching of Fu at column 8, lines 16-30, where 1160 m2/g is indicated as "clearly just a starting point" for even greater amplification factors that can be attained, and the fact that the gist of Fu is increasing this number as high as possible or desired according to available technology.

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6. The examiner interprets the negative limitation "not coated with an odorant molecule attachment material" as leaving only a measurement element having a high surface area material and a sensing circuit as elements of the invention, where both of these elements, and the structural and functional relationship between the two, are taught by Fu. Further, it is well settled that removal of an element along with its function is not a patentable step. Here, the removal of the odorant molecule attachment material from Fu would only remove its particular selectivity for that molecule. Therefore, applicant's argument that Fu would not work if the odorant molecule attachment material were not included is not persuasive. It would only remove

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its selectivity for a particular molecule, not all contaminants. Applicant's further assertion that Fu is not capable of providing an output signal characteristic of molecular contamination is not understood or supportable in view of the fact that Fu specifically indicates, in the bridging paragraph between columns 5 and 6, that many techniques and devices can be used to measure the amount of attached molecules.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John C. Hanley whose telephone number is 571-272-2195. The examiner can normally be reached on M-F 9AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on 571-272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JCH

HEZRON WILLIAMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800